



Digital Government Academy Course: Enterprise Content Management

Presented by Interwoven, Inc, for the State of Washington



Today's Agenda

- Today we'll continue our exploration of Enterprise Content Management in the State of Washington
- Today's topics:
 - TeamSite and Metadata
 - Finding your Assets
 - Supporting Personalization

- ***Objectives:**
 - Metadata concepts
 - Metadata technologies
 - Metadata planning and analysis
- Action planning:
 - Analyzing the metadata requirements for the DSHS sample project
 - Analyzing metadata requirements for your own agency



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 - Development environment searching
 - Production Environment searching
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 - Analyzing your development and production environment search requirements, with possible changes to your metadata planning



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 - Supporting —Personalization

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- Action planning:
 - Analyzing your personalization requirements



Seminar Schedule

- Day 1: December 4, 2002
 - Course Kickoff
 - ECM
 - TeamSite Templating
- Day 2: December 11, 2002
 - Develop-and-Deploy
 - TeamSite in the Enterprise
 - Branching Structures
- Day 3: December 18, 2002
 - TeamSite Security
 - Workflow Scenarios
 - Designing a Workflow

- Day 4: January 8, 2003
 - Designing Data Capture Forms
 - Designing Presentation Templates
 - Re-use via Templating
- Day 5: January 15, 2003
 - TeamSite and Metadata
 - Finding your Assets
 - Supporting Personalization
 - Course Summary

Topic 12



TeamSite and Metadata



Topic Objectives

- In this topic, we'll cover:
 - Metadata concepts
 - Metadata technologies
 - Metadata planning and analysis
- The action planning at the end of this topic will be:
 - Analyzing the metadata requirements for the DSHS sample project
 - Analyzing metadata requirements for your own agency



What is Metadata?

- Metadata is "data about data"
- This includes all information used to maintain content files, including:
 - Categorize
 - Track
 - Search
 - Organize
- Metadata is valuable both during development and production
- Different types of content assets will require different metadata
- Each version of a file can have its own unique set of metadata



Metadata: Example

- For website press release HTML files, the following metadata might be relevant:
 - Date of publication
 - Original author
 - Approving reviewer names and dates
 - Cross-reference to other press releases
 - Date of expiration
 - Abstract and keywords
 - Distribution keys (i.e., what audience is the release for)



Metadata Storage

- Metadata is stored in the TeamSite backing store separately for each file version
- The metadata is not inserted into the file, nor is the file's contents changed by adding or changing its metadata
 - However, adding or changing metadata on a file does create a new version



Metadata Analysis

- To plan for metadata implementation, consider your organization's content tracking and usage needs
 - Do you plan to automatically expire content?
 - Do you need to track the creation of content from its source through to final publication?
 - Who are the interested parties in your organization who need the data, and what do they do with it?
 - Do you have a problem with search?
 - Do you have an application other than search engines that might consume metadata?



Interwoven Metadata Technologies

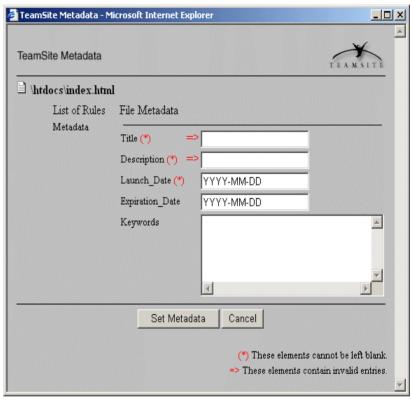
- There are two technologies available to Interwoven customers for metadata storage and tracking
 - TeamSite Metadata Capture
 - Provides basic metadata capture and storage capability
 - Built into TeamSite—always available
 - Interwoven MetaTagger
 - Provides advanced metadata capabilities
 - Separate license



TeamSite Metadata Capture

Capabilities:

- Each file can have an arbitrary list of metadata items attached, as name-value pairs, or tuples
- Each branch, sub-directory, and/or file type can have its own unique set of metadata tuples
- The metadata capture form
 is designed in the same way
 as a TeamSite Templating data capture form
- The submit workflow can be customized to require the metadata capture form to be completed as part of the submit process



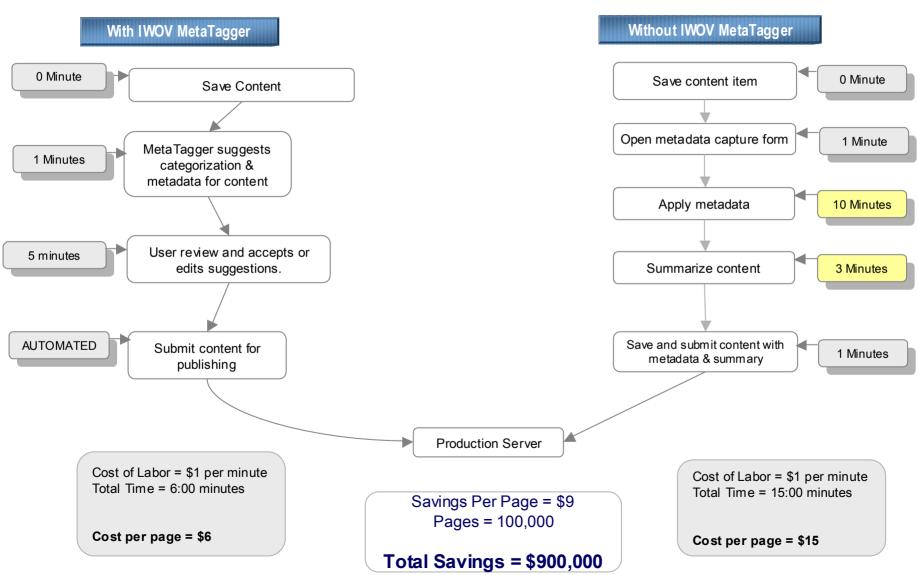


MetaTagger

- Capabilities:
 - All the capabilities of TeamSite metadata capture
 - Automated tagging based on automatic analysis of content
 - Intended to support search and classification systems
 - Supports both individual file and batch metadata tagging
 - Out of the box MetaTagger provides keyword extraction and summarization
 - By using a vocabulary (either a custom or one of the provided vocabularies), an enterprise can map out its intellectual property



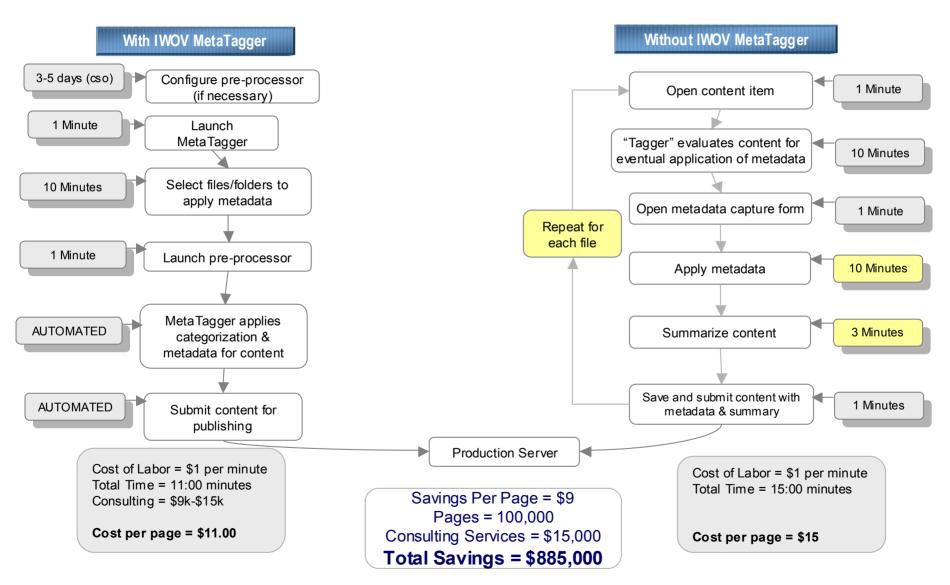
Single Asset Metadata Tagging – Process Improvement



Interwoven Confidential



Batch Process Metadata Tagging – Process Improvement





Deploying Metadata

- To be used, metadata must be deployed to a production database server
- For instance, metadata for use in search systems must be deployed to the online database so that it can be queried by end users to locate files
- Each metadata record deployed must contain a reference to the source file, as well as columns for each metadata tuple
- Interwoven DataDeploy automatically deploys metadata into your own database server's format
 - DataDeploy can also deploy templating data records in the same way
- Typically, metadata is deployed to the database server when new files are submitted



Action Exercise: Metadata Analysis

- Within your group, spend 30 minutes discussing the following:
 - Possible metadata needs for the DSHS press release sample project
 - Possible metadata needs for your own agency
- After discussion, spend 20 minutes documenting the following:
 - Your list of metadata tuples for the DSHS project
 - How the metadata will be used in development and in production
 - If you have time, also document the same information for your own agency
- Each group will then present their findings to the class one at a time



Action Item Discussion

- Class presentation
- Questions
- Take a few minutes to consider other group action items
 - Integrate theirs with yours if needed

Topic 13



Finding Your Assets



Topic Objectives

- In this topic, we'll cover:
 - Development environment searching
 - Production Environment searching
- The action planning at the end of this topic will be:
 - Analyzing your development and production environment search requirements, with possible changes to your metadata planning



Searching in the Development Environment

- In a large TeamSite backing store it can be difficult to locate a particular file quickly
- Development times can be shortened by enabling a search tool for the development environment
- If your metadata is being deployed to a database server, you can enable Metadata Search in TeamSite
- Metadata search is a powerful form-based query tool that enables users to search for and locate files in a large TeamSite backing store based on their metadata values
- You can also search for template data content records based on their item values



Setting Up Metadata and Templating Search

- To use metadata search, you must:
 - Configure metadata capture for files in your backing store
 - Install and configure TeamSite Templating
 - Install Interwoven DataDeploy
 - Configure DataDeploy to deploy metadata and/or template DCR records to a database server
 - Install the iwsearchmetadata.cgi and iwsearchdcr.cgi search tools
- Instructions in DataDeploy and TeamSite Templating product manuals



Searching in the Production Environment

- Once the content has been deployed from the TeamSite server to a production web server, you can also deploy the metadata from TeamSite to a production database server to serve as a search base for real-time queries by users
- TeamSite and MetaTagger can both generate the data for a search database, and it can be deployed to your database server with DataDeploy
- You must provide the actual search software and user interface



Example: Integration with Inktomi

- When OpenDeploy is run a process extracts the metadata from the files being deployed
- This metadata is then deployed to the Inktomi search engine
- The files are then deployed to the production webservers
- The integration calls Inktomi's API to add the metadata to the search engines collection and tell Inktomi to examine the list of files deployed
- Now the files are immediately searchable



Action Exercise: Search Planning

- Within your group, spend 20 minutes discussing the following:
 - What production metadata from the previous exercise would need to be searchable?
 - What types of search operations do you need to support on your production web site?
 - After discussion, spend 20 minutes documenting the following:
 - Your 5 most common development search criteria
 - Your 5 most common production search criteria
 - If needed, amend your metadata plan with new fields based on this analysis
- Each group will then present their findings to the class one at a time



Action Item Discussion

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Supporting Personalization



Topic Objectives

- In this topic, we'll cover:
 - Personalization planning
- The action planning at the end of this topic will be:
 - Analyzing your personalization requirements



Personalization and TeamSite

- Personalization support is provided via metadata
- Your metadata plan must include data used for personal preferences and customizations
- TeamSite does not include personalization runtime software
 - It is used to capture and store the personalization data
 - DataDeploy is used to push the personalization data to the production server
 - At that point, proprietary runtime personalization server software must provide the actual personalization routines and interfaces



Possible Personalization Factors

- Typical personalization services might provide:
 - Customization of portal home page
 - Language
 - Format (font, size, color, etc)
 - Filtering of subjects
 - Stored search patterns
 - Personalization Showing me thing based on settings I chose
 - Customization Showing the user things based on who they are
 - Campaign A customization with a targeted focus, usually time limited
 - These are progressively deeper levels of personalization



MetaTagger and Personalization

- Personalization frequently depends heavily on categorization of content
 - Geography
 - Language
 - Topic, etc



Using MetaTagger to Categorize Content

- MetaTagger is an excellent tool for automated categorization
- After "training" MetaTagger with a customized vocabulary, it can scan each new or changed file in TeamSite and tag the file with metadata that contains category information
- This data can then be deployed to your search database by DataDeploy



Creating "My Portal" Capabilities

- If you're running a portal server based on WebLogic or another J2EE portal product, TeamPortal can be used to integrate TeamSite features into your portal site
- It can add a "My TeamSite" and "My Tasks" portlet, which allows access to your TeamSite workarea, tasks, and templates directly via your portal site, bypassing the normal TeamSite UI



Action Exercise: Personalization Requirements

- Within your group, spend 20 minutes discussing the following:
 - What personalization requirements does your agency site require?
- After discussion, spend 20 minutes documenting the following:
 - Your personalization requirements, and how they impact your metadata requirements
- Each group will then present their findings to the class one at a time



Action Item Discussion

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Seminar Conclusion